



The Halifax Amateur Radio Club

REFLECTOR

PO BOX 663
HALIFAX NS
B3J 2T3

November 2006 Volume 67 Number 9

club web site is www.halifax-arc.org



Remembrance Day - November 11



HARC Club Station phone number - 490-6421

See the HARC Web site at: <http://www.halifax-arc.org>

Our executive and committees.

Position Name & Call Sign	Phone #	E-Mail
President - Bill Elliott, VE1MR	865-8567	ve1mr@rac.ca
First V.P. - Rob Ewert, VE1KS	826-1705	ewertr@hfx.eastlink.ca
2nd V.P. - Howard Dickson, VE1DHD	823-2024	dhdickson@hfx.eastlink.ca
Secretary - Murray MacDonald, VE1MMD	876-0661	twomacds@ns.sympatico.ca
Treasurer - Fraser MacDougall VE1WO	865-4198	ve1wo@rac.ca
Director-at-Large: - vacant		
Club Station Mgr. - Brian Allan, VE1AZV	489-4656	basailor@eastlink.ca
Past President - Dick Grantham, VE1AI	434-8046	ve1ai@rac.ca

Committees/Offices/Prime Contacts

75th Anniversary Chair - Bob Swinwood, VE1PQ		
Brit Fader Memorial QSL Bureau Manager - Bob Burns, VE1VCK		ve1vck@rac.ca
EMO Coordinator - Dave George, VE1AJP	466-8723	dgeorge@dal.ca
Reflector editor - Lynn Bowser, VE1ENT	865-8567	ve1ent@rac.ca
Reflector Dist. - Howard Dickson, VE1DHD	823-2024	dhdickson@hfx.eastlink.ca
Membership - Howard Dickson, VE1DHD	823-2024	dhdickson@hfx.eastlink.ca
Web page - Rob Ewert, VE1KS,	826-1705	ewertr@hfx.eastlink.ca
Basic ham course - Scott Wood, VE1QD	823-2761	ve1qd@rac.ca
EMO Trailer Assembly coord - David Musgrave, VE1EDA	435-4333	ve1eda@rac.ca
2007 Flea market Chair - Barry Diggins, VE1TRI		
Field Day coordinator - John Hopkins, VE1HMH		
Safety Officer - Terry Bigelow		ve1trb@rac.ca
RAC Asst Director - Wayne Marchand, VE1WJM,	860-1580	
RAC Atlantic Director - (acting) - Len, VE9MY		
NSARA Director - Scott Wood, VE1QD	823-2761	ve1qd@rac.ca

The General Monthly Meeting of the Halifax Amateur Radio Club will take place Wednesday, October 18, 2006 at 1930 hours (7:30 PM), at the former Bloomfield School building (corner of Almon and Agricola Streets). The meeting, to be held in the Multi-Purpose Room, will be followed by the **HARC Annual Meeting**. Please be present to exercise your vote and elect the HARC executive for the coming year. A quorum is need at all meetings to transact our business and for timely election of our new executive is especially important. Our Nomination Committee for this year will be Doug LeBlanc, VE1LDL and Tom Caithness, VE1GTC. Guests are welcome.

Field Day 2006 - In the 2A class - #1 in Canada was VE3ZI; 16th in class with 9046 points. Looks like we placed 22nd in class and 2nd in Canada with 7744 points. Leader in 2A was W1NVT with 13,858 pts.

Take-15 Net Controllers

NOTE: There have been some changes.

If you cannot take the net on your particular trade places with one of the others. If I have left any one off the list, or you want to join, please let Bill Elliott, VE1MR, know.

Nov. 12	Pierre	VE1PTR	Dec. 24	Chris	VA1CDB
Nov. 19	Win	VE1WIN	Dec. 31	Pierre	VE1PTR
Nov. 26	Peter	VE1PJW	Jan. 7	Herb	VE1HX
Dec. 3	Herb	VE1HX	Jan. 14	Win	VE1WIN
Dec. 10	Doug	VE1LDL	Jan. 21	Peter	VE1PJW
Dec. 17	Charles	VE1MCR			



Deadline for submissions to the January Reflector is Saturday, Jan. 6, 2007



GENERAL INFORMATION

TAKE-15 NET: Sunday evenings at 8:30 PM on VE1PSR/VHF

CLUB REPEATERS:

VE1PSR/VHF - 147.270 MHz +
VE1PSR/UHF - 444.350 MHz +
VE1PSR/6M - 53.550 MHz -
access tone 151.4 Hz
VE1HNS - 146.940 MHz -

PACKET:

VE1NSD 145.050 MHz LAN NODE
VE1BBS - Local packet BBS
accessible through the LAN

Law of Dirty Rugs/Carpets: The chances of an open-faced jelly sandwich landing face down on a floor covering are directly correlated to the newness and cost of the carpet/rug.

Events for Your Calendar

The schedule for the **Basic Radio Licensing Course** for the fall is on the HARC Website. Started Sept.14, it will run over a 14 week period. If you know of anyone who is interested in getting an amateur radio license, please have them get in touch with Scott, VE1QD

November 18 - there will be an Exercise at the EMO Spicer building EOC 1/ to verify our interference mitigation procedures at the EOC 2/ to practice sending messages. All can take part; operate from home, from the office, hiking with your HT, mobile, etc..

The HARC Christmas party !!

December 20 (Wednesday) at the Steak and Stein Restaurant, Young St., Halifax. A special price has been negotiated on 3 entres, or you can order from their regular menu.

Downeast Flea Market – The Halifax Forum has confirmed our reservation for May 12, 2007. Barry, VE1TRI will chair.

In **2008** we'll celebrate the **Halifax Amateur Club's 75 years** of operation. What special project or activity would you like to suggest and/or be involved with?

Bob, VE1PQ, is chairing this celebration. Contact Bob to become part of the planning & execution. The brain-storming has started.

The NSARA general and annual meetings and the election of the NSARA executive for 2006-2007 were held immediately following the Greenwood fleamarket.

The 2006-2007 NSARA executive President – Tom Cohoon, VE1TA Vice-Pres. – Jim Hannon, VE1AFH Secretary – Bruce Harvey, VE1II Treasurer Shirley Cohoon, VE1JFG

Puzzler – Do You Know?

What is a "cognitive radio"
Answer on page 9



The Steak and Stein on Young Street had been selected to host the HARC's annual **Christmas Dinner**. The management has confirmed that members will be billed separately.

Date: December 20

**Time: 6.30 PM for
7.00 PM**

Diners will have the choice of three (3) items or are able to order from the menu if they so wish.

A number of small door prizes will be available for those in attendance.



An enjoyable Greenwood flea market, held Saturday, Oct.21/06, was well attended by buyers & sellers. Durham Radio and ALQ were present as well as a computer dealer. The chefs braved the damp, cool and windy weather to produce their traditional and tasty Bar-B-Q'd bratwurst (with sauerkraut). Many new and "previously enjoyed" items went home with new owners. All-in-all, a good chance to see and chat with fellow hams. *ed.*

Craig, VE1JMA, received an answer to his question at the end of his article in October's Reflector, "Where are the Corrys now?" Turns out that Dick, VE1AI has stayed in contact with them. Pete, now VA3PA, and his wife Pat are retired and live in Brighton, Ontario. while Steven and Michael both live in Ottawa. -ed.

Are you up to date with your HARC membership dues?

Yearly rates are as follows:

Full = \$25 Associate = \$15
Family (2 members) = \$35 + \$10
for each additional family member
at same address (only 1 newsletter)

RAC's web site is **www.rac.ca**

Why does someone believe you when you say there are four billion stars, but check when you say the paint is wet?

**Silent Key**

Sidney Hatcher, VE1BJR - Bedford An Amateur Radio Operator for many years, Sid has been joined in our hobby by 2 sons, Don, VE1BPN, and Ken, VE1KBL, and by grandson Brandon, VE1DYN.

NOTICE OF MOTION

This resolution was passed by the executive at the October executive meeting and is to be brought before the membership **to be voted upon at the November, 2006 Annual General Meeting.**

HALIFAX AMATEUR
RADIO CLUB SPECIAL
RESOLUTION #03 -06



Be it resolved that By-law #7.5 be amended as follows:

In the event a Director or Officer, as described in article # 9.0, resigns his office or ceases to be a member of the Society prior to the June ordinary general meeting, the vacancy shall be filled by election at a ordinary general meeting. If the vacancy occurs on the date of the June ordinary general meeting or on a subsequent date prior to the next annual meeting of the Society, or the position was vacant prior to the June meeting and after due procedure has been followed is still vacant, the executive shall have the power to appoint a member to fill the vacancy.

NOTICE OF MOTION

A motion will be raised at the HARC November meeting for approval to purchase equipment and installation for \$750 and a monthly monitoring fee of \$25 for a recordable/monitored entrance system for the club station. If the membership approves this expenditure a second vote will take place at our January meeting, according to the HARC's constitution. as this purchase will exceed \$500.00.

PRESIDENT'S MESSAGE

The club year is winding down now but still lots going on. The Annual General Meeting will be this month and you get to chose a new executive for 2007. Several of the old executive will run for the same or a different executive position. There will be some new faces, will one of them be yours?? Please consider what you can do for the club in 2007.

You will notice some new names as committee chairs, please give these people your help and cooperation. Many people do not want to organize events and such but are willing to help out, please come forward to chair people with your ideas and help. If you see something that needs doing, perhaps ask an executive member or chairperson if they would like you to do this task. Often there are many details overlooked or forgotten because only a few people are doing the planning.

The Christmas party should be a great social event, I hope to see you all there. The new year should be full of activity and hopefully you will be able to take part in some or most of the activities. I personally did not get as much done this past year as I had planned but if you don't make the plans it can't happen.

I know it is early but I would wish the members a Merry Christmas and a Happy and Healthy New Year.

73 - Bill, VE1MR



NET CONTROLLERS NEEDED

We are currently down to 7 net controllers, the ideal minimum is 10. The more there are the less each has to do and if someone can't take the net on his evening there is more chance another will pick it up. If you would like to do a little something for the club this is ideal, not very hard and not very often. Please contact Bill, VE1MR by: Phone - 865-8567 or E-mail: - ve1mr@rac.ca

Silent Key – Fred Stevens VE1DK - May 9, 1924 to Oct 14, 2006.

Fred became a radio amateur in 1946. He enjoyed operating and was usually around somewhere on one or more bands right up until he went into hospital, a few weeks before he died.



NSARA 2006 Picnic

A beautiful setting, great weather. Some who didn't participate in the foxhunt played bingo (More pics on page 5)

Go to <http://nsara.ve1cfy.net/> for more pictures

MEMBERSHIP

Time to think about renewing your membership to the Halifax Amateur Radio Club.

I have agreed to take on the responsibility of maintaining the Membership database (Membership Chair for HARC) and I will also be distributing the hard copy and email versions of the HARC Reflector. So please do get in touch if you have any problems or concerns in these areas.

The upcoming year - 2007 - is going to be a relatively lean one for HARC as we made the decision last year to hold off publishing the next edition of the Maritime Amateur Radio Callbook that was due in 2007, until the year of the 75th Anniversary of HARC in 2008. That means the Club is going to rely more than ever in 2007 on the members to renew their membership in a timely fashion.

Another way that the membership can assist with the Club finances is to help us to reduce the cost of printing and mailing copies of the Reflector to members each month. If you have an email address and are willing to accept a .pdf file copy of the Reflector each month, it will save the Club significantly over the year. PLEASE consider receiving the Reflector by email each month. There are several benefits to getting the Reflector emailed - 1) you will receive your copy a few days before those folks who get the hard copy; 2) you will see all of the photographs and graphics in "living colour" rather than the B/W of the printed version.

Thanks for your continuing support of the Halifax Amateur Radio Club and I will look forward to seeing you at our November Club meeting on the 15th of November, and to receiving your completed Membership Renewal Application.

73 Howard - VE1DHD,
Membership Chair - HARC

Tech support: Click on the 'my computer' icon on the left of the screen.



Customer: Your left or my left?

Safety Corner November 2006

By Terry, VE1TRB

First Aid

I just completed a one day First Aid Refresher with the company I work for. Keeping current is part of the agreement with the company and employees. The refresher is intended for people who are still current, or whose certificate is near the expiry date. It is not for someone who has never taken First Aid training. I figured I'd use this subject in this month's Safety Corner, just to get some of you thinking of First Aid training.

There are some people who get first aid training once and never bother to keep their certification up to date, after all, first aid never changes, right? WRONG! There have been changes in First Aid that came into effect November 2005. There have been some changes in the CPR/AR, and choking procedures. The new procedures apparently have a much higher success rate than the old ones. There is this new thing out called Automated External Defibrillation or (AED), that is so simple that even the average person should be able to use it, given the proper training that is. Have you ever been in a situation where you had to help someone use their Epipi-Pen because of an allergic reaction but had no idea how to help, so you didn't help at all? Have you ever seen someone having a seizure and thought you had to stick something in his or her mouth because you thought you were supposed to? How about doing something that was radio oriented and the person you are with gets an electrical shock, or falls down for no apparent reason. Do you know what to do? Do you really want to know what to do? In Canada, there is an act that will cover you if you act reasonably to help someone, and when you help, you help according to your training. In other words, you don't try to perform some procedure on a person that you are not trained to do.

I remember taking a course a bunch of years ago through my previous employer, the instructor told us that if you are to the point that you have to administer CPR, the casualty is already dead, all you're doing is keeping the organs in a condition so that they can be used in a transplant. Well, that is not so, not now anyway. With the new procedure, there is apparently a good chance of full recovery. Of course, with any medical emergency, timing is of most importance. The faster you or someone is able to respond appropriately, the better chance there is of recovery, or survival.

I hope I've created enough interest in this subject. You may want to approach your employer and ask about First Aid Training, you could save someone's life. On the Internet, visit <http://stjohnambulance.ns.ca>, and take a look at the courses that are available.

REMEMBER SAFETY IS EVERYONE'S BUSINESS

If you have any comments or questions that you would like to see addressed in this column, please feel free to send me an email. ve1trb@rac.ca

Mid-fall term update on progress of the Basic Amateur Radio Training, etc.

from Scott, VE1QD

1. Current Course. There are 16 people registered in our fast tracked course this fall, including two who are working on a self-study basis. We are approaching the half-way mark. The first quiz, given mid-October, resulted in passing scores for everyone, and most people got around 85%. A good omen! Another quiz will be held on 26 October.

2. A New Ham. It was with real pleasure that I had a call over Thanksgiving from Devin Nakamura who informed me that he had passed his Basic Radio License with honors (85%). He is now VE1DEV. Moreover, Devin, who lives in The Valley, is thirteen (13) years old! Warm congratulations to you, Devin, and welcome as a full member of our great hobby. He is already on 2 meters and looking for the International Space Station, but HF gear on his urgent wish list. Christmas is close, Devin!

3. A Great Prize for Achievement. Howard and Jean Dickson have very generously donated an ICOM IC-V82 2-meter FM handheld transceiver to the Basic Radio Class. They won it this summer at a ham radio event in Lunenburg and decided that it was not needed in the VE1DHD shack so it will go to one of our lucky students.

Howard and Jean have set the following conditions for eligibility for the draw:

- Tickets will be issued to those in the current HARC Basic Amateur Radio class, and those in the Self Study Class from this past summer, who achieve/have achieved 80% or better on their final exam.

- The draw will take place at the HARC Christmas party on Wednesday, 20 December at the Steak and Stein Restaurant on Young Street. The winner must be present at the dinner to receive the prize.

What a great incentive to work hard preparing for the exam on 16 December!. All of you who have had a start on your ticket in 2005 and 2006, but have not completed the work, try qualifying for this prize! Note that I consider those who were in last year's class - but have not passed the exam - as a part of the self-study group so you can qualify too by passing your exam. If you need some special help, give me a call.

Very best wishes to you each, Scott.

Why do toasters always have a setting that burns the toast to a horrible crisp no one would eat?



Some Summer 2006 Activities

On the last Sunday in August, 2006 about 75 hams and their spouses & guests enjoyed the Steak & Salmon supper (yum) put on by the Lunenburg County ARC at Michelin Tire Co.'s recreation center, Bridgewater.



"Chef" Tom,
VE1TA at the
BBQ



A record 437 bicyclists were registered to peddle from Windsor to Wolfville and back on the August 2006 Nova Scotia MS Bike Tour. Over \$350,000 was raised. It proved impossible to assemble for a group photo all of the hams who helped provide communications for this event. Those we could collect are in the picture at left. (L to R) Terry, VE1TRB; Bill, VE1MR; Brenda, VE1PA; Doug, VE1LDL; Rod VE1BSK; George, VE1GAB; Lynn, VE1ENT; Rick, VE1RGG. Missing from this photo - David, VE1EDA (and the mobile repeater); Howard, VE1DHD; Herb, VE1HTD; Helen, VA1YL; Fred, VE1FA



Tim Dunlop of the Nova Scotia MS Society presented a 10 year volunteer lifer award to Terry, VE1TRB, (Oct.)



August 26, 2006 – The NSARA 2006 Picnic was sponsored by the Yarmouth Amateur Radio Club Inc. and held in Gavelton, Yarmouth Co., at the summer home of Bernie and Veralyn Bonnar, VE1UT and VE1VAR.

The NSARA picnic featured a short meeting, a super seafood chowder lunch, a CW copying contest, Fox Hunt, Home Brew contest, Bingo game and scavenger hunt.



**Halifax Amateur Radio Club
Minutes of the Monthly General
Meeting
Wednesday, October 18, 2006**

President Bill (VE1MR) called the meeting to order at 1935 with 38 members and guests in attendance.

Silent Keys: There were two (2) silent keys to report:

Fred Stevens – VE1DK – Great Village

Sidney Hatcher – VE1BJR - Bedford

Guests / Visitors:

Tim Dunlap – MS Society

Cyril T. Welsh – VA1CW (new member)

Dave Charbonneau – (course member)

Executive in attendance:

Bill Elliott (VE1MR) President;
Howard Dickson (VE1DHD) 2nd Vice President; Murray Mac Donald (VE1MMD) Secretary; Fraser Mac Dougall (VE1WO) Treasurer, Dick Grantham, (VE1AI), Past President, Brian (VE1AZV), Station Manager.

Regrets: Regrets were received from: Rob (VE1KS), 1st Vice President.

Minutes of the September 20, 2006 monthly general meeting: It was moved by David (VE1EDA) and seconded by John (VE1HMH) that the minutes of the September 20, 2006 meeting, as printed in the October edition of the Reflector, be adopted. Motion was carried.

Executive Reports:

Treasurer's report: Fraser (VE1WO) reported that opening balance for the fiscal year was \$9,826.68 and that the year end balance was \$10,293.59. He reported that income for the month was \$2,794.79 and expenses were \$58.13.

It was moved by Howard (VE1DHD) and seconded by Bruce (VE1MLW) that the Treasurer's Report be accepted. Motion was carried.

Secretary's report: Murray (VE1MMD) advised that he had nothing to report.

President's report: Bill (VE1MR) advised that Barry (VE1TRI) had vol-

unteered to act as chair for the 2007 edition of the Down East Flea Market. Bill reported that there remained openings for at least two (2) members of the Committee and if anyone was interested in taking on the role, to please see Barry.

Bill also inquired if any member was willing to take on the role of tube bank manager. He advised that if no member was willing to assume the role, he would offer it to the NSARA.

1st. Vice President's report: Rob (VE1KS) was unable to attend and sent his regrets. He advised that he had nothing to report.

2nd. Vice President's report: Howard (VE1DHD) reported that the Steak and Stein on Young Street had been selected to host the Club's annual Christmas dinner. He advised that the management had confirmed that members would be billed separately. The dinner is scheduled for December 20th at 6.30 p.m. for 7.00p.m. Diners will have the choice of three (3) items or are able to order from the menu if they so wish. A number of small door prizes will be available for those in attendance.

Howard advised that those members of the 2006 graduating classes with a pass mark of 80 or higher will be eligible for a draw for a new handheld at the Christmas dinner. Howard had won this radio at the Lunenburg event and was pleased to be able to donate it to a member of the 2006 graduating class. In order to be considered for the prize, candidates must be in attendance at the dinner.

Howard reminded club members that a number of generic QSL cards are still available at a cost of \$2.50 / 10.

The door prize for the October meeting is a book on "Emergency Power" donated by Scott (VE1QD). The entertainment for the October meeting will be a talk by Spud Roscoe (VE1BC) concerning his time on the Bounty.

Station Manager's report: Brian (VE1AZV) advised that an antenna party at the club premises was scheduled for Thursday, October 19 at 10.00 a.m. with a rain date of the 20th. The club antennas are in dire need of repair.

He also advised that a number of club members would be gathering at the club station on Friday, the 20th at 10.00 a.m. to finish pricing and loading items for the Greenwood Fleas Market.

Any member available to assist at either event is welcome to meet at the club station on the date and time reported above.

Brian reported that all the club equipment had been removed from the old storage space at the Bloomfield Center and had been relocated to another location on site.

Member at Large: Vacant.

Past President: Dick (VE1AI) advised that he had nothing to report.

Special Presentation: A plaque recognizing his ten (10) years of service to the Bike-A-Thon was presented to Terry (VE1TRB) by MS Society representative Tim Dunlap. Tim thanked the club and members who have participated over the years. He reported that this year produced a record number of participants and a record amount raised for the charity.

Committee reports:

Membership: Murray (VE1MMD) (acting chair) gave a brief update indicating that two (2) new associate members had joined the club.

Search and Rescue: Dave (VE1AJP) reported that the team had been called out to assist in the search of a 13 year old girl who went missing in the Tucker Lake Road area. The team was joined by a tracking dog and the RCMP. The girl was located and returned to her home.

EMO: Dave (VE1AJP) reported that plans are underway to have the various hospitals install the necessary communications equipment so that in the event of an emergency, everything

(Continued on page 7)

HARC Minutes - Oct.18/06
(Continued from page 6)
will be in place.

It was reported that an EMO Communications course is scheduled for November 4th commencing at 9.00 a.m. at the EOC in Dartmouth. Anyone interested is encouraged to contact Tom (VE1GTC).

It was also reported that an EMO exercise is scheduled for November 18th and club members may be asked to participate.

Field Day: Howard (VE1DHD) reported that a report has been submitted to the executive for their perusal and required action. Included in his recommendations is that the 2007 field day be held at York Redoubt. In addition, a safety and environmental report has been submitted by Terry (VE1TRB). This will also be reviewed and necessary action taken. Both reports will be turned over to the 2007 field day chair, once appointed.

DX Forum: Scott (VE1QD) reported that the DX Forum had been a great success with forty – one (41) in attendance. The feedback received was very good including positive comments on the location.

Course: Scott (VE1QD) reported that there are seventeen (17) enrolled in the current course. The course has been compressed to a fourteen (14) week time frame.

Recognition: On behalf of the club, Scott took the opportunity to recognize recent achievements by members of the Club. Ralph (VE1RAR), Rich (VA1CHP) and Murray (VE1MMD) had all recently received their DXCC certificates. Dick (VE1AI) has received the IOTA award (a plaque) recognizing his achievement as the number 1 North American IOTA station in the July 2005 event.

75th Anniversary: Bob (VE1PQ) reported that the committee had held their second meeting. He advised that the committee has made significant progress. A number of action items had been identified and assigned to various members of the committee and that a preliminary time line had been

prepared. He reiterated that in order for such an undertaking to be a success, it will require the involvement of each and every member of the club. He reminded all that the events are "for you, about you and including you".

Old Business:

A second vote was held on the purchase of filters as contained in the Notice of Motion carried in the October edition of the Reflector. The motion was approved.

New Business:

Bill (VE1MR) advised that the executive had authorized the purchase of a 432/ 100 watt amp for club use at a cost of \$200.00. This item was a part of the donation to the Brit Fader Fund.

Bill reported that a number of vacancies still exist.

- 1) Nominating committee chair. Doug (VE1LDL) and Tom (VE1GTC) volunteered to act as co-chair.
- 2) Membership Chair and Reflector Mail
- 3) Field Day Chair.

If you are interested in assisting **your** club and are willing to take on any of the above listed positions / duties, please let Bill know.

Announcements:

Barry (VE1TRI) advised that a meeting was scheduled for tenants of the Bloomfield Center on October 25th at 1.00 p.m. and again at 7.00 p.m. Bill advised that members of the executive will be in attendance.

50/50: The 50/50 draw in the amount of \$24.00 was won by Carol Wilson.

Door Prize: The book was won by John (VE1HMH).

It was moved by Lynn (VE1ENT) that the meeting be adjourned. Meeting adjourned at 2026.

Respectfully submitted,
Murray Mac Donald, VE1MMD
Secretary, Halifax Amateur Radio Club

Backpack-bounce energy can power portable devices

OTTAWA - Larry Rome, a biomechanics expert at a marine biology lab who studies how muscle moves skeletons in fish and frogs has used his knowledge of bones and muscles to invent a backpack that generates electricity by bouncing gently up & down on a hiker's back.

The invention could allow flood-relief workers, explorers or video game lovers to carry fewer heavy batteries for cell-phones, GPS instruments and other portable electronics.

Human hips rise and fall about five centimeters with each step, and a back-pack worn by a hiker rises and falls as well. The pack frame is tied to the hiker's body but, in the University of Philadelphia scientist's design, the cargo compartment is suspended with springs from the frame. During walking, the cargo compartment bounces up and down. This up-and-down movement cranks a gear mounted on a generator to generate electricity.

Rome says the need for power on the go is growing all the time.

The catch is that you need to carry a fairly heavy load to generate your own power. By carrying a load weighing from 20 to 38 kilograms, "suspended-load backpack" testers were able to generate up to 7.4 watts

The professor was surprised to find you won't waste a lot of your own precious energy recharging the batteries. "When you're walking you get a rhythm, and it actually feels good," he said.



His original idea came from the US Office of Naval Research, which was worried about the effect of loading 8 or 9 Kilograms of extra batteries onto soldiers in Afghanistan.

Source: an article by Tom Spears for CANWEST NEWS SERVICE

"Dogs believe they are human. Cats believe they are God."

From the Mail Bag

.... about DL1HXB . here is an email from them. VE1ESP and VE1WRG Have been in touch with them through IRLP also. Apparently they also work 14.313 probably in German on scheduled basis. 73 Nigel VE1NPS

Jutta and Heiko from SY MOMO

From: DL1HXB@Winlink.org 29 Oct /06

Hello Nigel!, Thank you for stopping on MOMO and, of course, for the pictures!

We stayed Thursday night on the fuel dock in the Armdale Yacht Club and had a nice invitation to one of the members.

Friday morning we got Diesel and also a hot shower and left not too late!

Because of the weather we were looking for a protected place and are now here in Port Medway alongside a fisher boat in the harbour. It started raining and is blowing, so we get some power of our windmill!! (it has all it's positive sides!)

As the forecast looks we have to stay in here for a while!

We can still hear the repeater VE1HNS, so it looks it has a really good place. Where is this about?

APRS via TH-D7 is not working, perhaps via UI-View, we did not try it until now. Were busy today to organize some new pages for our homepage: www.sy-momo.de

We did not really have much time for this since we left from the Great Lakes middle of September.

If you want, you can send a QSL card to Germany:

Jutta Richter, Birkenstr. 8, D-91224 Pommelsbrunn, Germany

or you can wait until we come next summer back to Nova Scotia and meet you perhaps somewhere!! So far from here!

All the best and a good winter from Jutta DL1HXB and Heiko DO3SYM; SY MOMO

PS: our hull speed is about 7 knots (for 35 feet), but we can reach that only by sails, our engine is not strong enough!

The following message is from National Research Council of Canada.
73 de Donald VE1CY

On April 1, 2007, CHU needs to stop operating on 7.335 MHz, change frequencies, or be re-licensed as a broadcast station.

In April 2007 the licence on 7.335 MHz will have to be modified to reflect changes on the status of the band allocation by the International Telecommunications Union. This frequency has been changed from "fixed service" to "broadcast". (The ITU decision does not affect the frequencies 3.33 MHz and 14.67 MHz.)

Some alternatives are:

- 1) Re-licencing just might be possible, calling the 7.335 MHz a "broadcast".
- 2) It is also possible to stop using that frequency (the most useful of the three we use). Stopping one signal is the easiest solution but could create problems for some clients who are counting on this particular signal.
- 3 Change the frequency from 7.335 MHz to a nearby fixed-service frequency. It would need some investment from our part in new hardware and in manpower. It could also create problems for clients, and likely not all radios will be able to tune to the new frequency.
- 4 Closure of the entire CHU operation.

If you know of anyone using CHU but not aware of the possible changes to its frequency usage, let them know and ask them to contact us about any essential uses. Also if you have an important use for CHU signals, please tell us how you use our signals.

Radio Station CHU, National Research Council of Canada

1200 Montreal Road, Bldg M-36

Ottawa, Ontario, Canada K1A 0R6

E-mail radio.chu@nrc-cnrc.gc.ca

URL http://inms-ienm.nrc-cnrc.gc.ca/time_services/shortwave_broadcasts_e.html

Oct.12/06 – FCC Changes to Amateur Radio Rules

Hey Folks, just look what has happened now looks like our sacred 25Khz's on 75 M are going to be gone. Oh well...guess we will just have to work around them somehow. Val Lemko

The FCC has just announced significant changes to the rules in the US, to take effect around mid-November: <<http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-06-149A1.doc>>http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-06-149A1.doc>

The US phone band on 80m will be expanded to 3.6 - 4 MHz, and on 40m to 7.125 - 7.3 MHz.

The change to 80m promises to completely overturn how 80m is used, with likely knock-on effects on digital and CW as well. I am sure this will have an impact on the voluntary Canadian HF band plans.

Novices and Tech Plus operators will be moved to 3.525 - 3.6 MHz, 7.025 - 7.125 MHz, 21.025 - 21.2 MHz and 28.0 - 28.5 MHz, (They will be on the same CW sub-bands as General class.)

There are many other changes, mostly with little impact on Canada, but the changes to 80m phone will certainly affect us.

73, Richard Ferch VE3KI, VP-Regulatory Affairs

Radio Amateurs of Canada

ve3iay@rac.ca

FOR SALE: - The following gear has been advertised before in the September Reflector. Suggested prices may be different than before. Bids of reasonable offers received before 6 PM Nov. 15, 2006. will be considered.

ICOM – 751 C/W MANUALS (SERVICE AND INSTRUCTION), With: RC-10 FREQUENCY CONTROLLER (MANUAL), PHONE PATCH (NO MODEL#), SM-8 DESK MIKE, FL-52A – CW FILTER and FL-53A – CW CRYSTAL FILTER, has SSB filter installed \$700
Dentron MLA-2500 – 160M-10M amplifier \$900

Contact: Fraser MacDougall, VE1WO: ve1wo@rac.ca or Phone: 865-4198

Proposed Band at 500 KHz From VK4DU, Wireless Institute of Australia

Over the past few months, news has reported moves by amateurs to secure an allocation in the vicinity of 500 kHz, the old maritime Morse Code distress channel. Of course, 500 kHz was replaced by the Global Maritime Distress and Safety System, or GMDSS, in February 1999. Ships are no longer required to monitor or use 500 kHz for distress calls.

The ARRL, the RSGB and now the Irish amateur radio society have submitted proposals to their radio regulators for a small amateur allocation in the region of 500 kHz. The UK radio regulator has indicated that they are considering the issue. However, many former Merchant Navy Radio Officers are strongly opposed to amateur operation on 500 kHz. Their view is that 500 kHz must be preserved as a museum or historic frequency. The UK and the German Radio Officer associations have published papers to this effect.

At the moment, the international radio regulations still designate the band 495-505 kHz exclusively for distress and safety use. This status can only be changed by a world radio conference. Interestingly, there are still some coast radio stations monitoring 500 kHz. Chinese and Indonesian stations maintain a distress and calling watch on 500.

So, in summary, there may be scope for a small experimental Amateur allocation either above or below 500 kHz, but this could be some time off yet.

Forwarded by Rob, VE1KS

From the ARRL Letter, Vol. 25, No. 42

ITU Marks 100 Years of International Radio Regulations

2006 marks the 100th anniversary of what became the International Telecommunication Union (ITU) Radio Regulations. See <http://www.itu.int/ITU-R/information/promotion/100-years/>. The first International Radiotelegraph Conference gathered 29 maritime states in Berlin, Germany, in Nov. 1906 to sign the "International Radiotelegraph Convention" establishing the principle of compulsory 2-way coast-to-ship radio communication and aimed at making it free from harmful interference. The annex to that convention contained the first regulations governing wireless telegraphy. Since expanded & revised by numerous radio conferences, these regulations now are known as the Radio Regulations of the ITU, or simply "the Radio Regulations."

The Radio Regulations (today a binding international treaty) now apply to frequencies ranging from 9 kHz to 400 GHz and incorporate more than 1000 pages of information describing how the radio spectrum may be used & shared around the globe. Some 40 different radio services now compete for spectrum allocations to provide the bandwidth needed to extend services or support larger numbers of users.

International Amateur Radio Union (IARU) <http://www.iaru.org/> Secretary David Sumner, K1ZZ, paid tribute to the farsightedness evidenced at the Berlin Conference "recognized that the radio spectrum was a unique international resource. Without the original guiding vision and the dedicated stewardship of subsequent generations of delegates to innumerable ITU conferences, the radio spectrum today might well be chaotic, polluted, and almost useless.

The ARRL Letter, Vol. 25, No. 44
 2 Groups to Descend on the second most-wanted DXCC entity, Lakshadweep Islands (VU7)

A team sponsored by the Amateur Radio Society of India (ARSI) -- the International Amateur Radio Union (IARU) member-society for India -- will operate as VU7LD <http://arsi.info/vu7/index.html>.

ARSI's VU7LD DXpedition will run from December 1 until Dec.30 from Kavaratti Island. A second group, under the auspices of the National Institute for Amateur Radio (NIAR), plans to operate as VU7RG <http://www.vu7.in/>, in honor of the late Indian Prime Minister Rajiv Gandhi, VU2RG. NIAR's VU7RG DXpedition is set for December 1 to Dec.10 from sites on Agatti, Bangaram and Kadmat islands. A 3-day hamfest and conference will kick off the NIAR DXpedition.

The Daily DX and QST "How's DX?" Editor Bernie McClenny, W3UR, has cautioned that the two highly competitive organizations carefully coordinate their on-air activities to avoid chaos. "It's possible that 6 or more stations between the two teams may operate at the same time on the same band and mode,"

50 or more hams from India and elsewhere are said to have signed on to fill the VU7RG operating positions. Approximately two dozen radio amateurs from India will handle VU7LD operations on CW, SSB and digital modes.

Part of the Laccadive Islands, Lakshadweep, the smallest union territory of India, is in the Arabian Sea some 200 to 300 km off the southwestern coast of India. The territory marks its 50th anniversary this year.

HARC has **Anderson Powerpole connectors** for sale at \$1.25 each (one red and one black connector for one complete end). A complete mating pair requires 2 connectors. Place orders with Tom Caithness VE1GTC

tom.caithness@ns.sympatico.ca

Christmas Holiday Eating Tips

1. Avoid carrot sticks. Anyone who puts carrots on a holiday buffet table knows nothing of the Christmas spirit. In fact, if you see carrots, leave immediately. Go next door, where they're serving rum balls.
2. Drink as much eggnog as you can. And quickly. Like fine single-malt scotch, it's rare. In fact, it's even rarer than single-malt scotch. You can't find it any other time of year but now. So drink up! Who cares that it has 10,000 calories in every sip?
3. If something comes with gravy, use it. That's the whole point of gravy. Gravy does not stand alone. Pour it on. Make a volcano out of your mashed potatoes. Fill it with gravy. Eat the volcano. Repeat.
4. As for mashed potatoes, always ask if they're made with skim milk or whole milk. If it's skim, pass. Why bother? It's like buying a sports car with an automatic transmission.
5. Do not have a snack before going to a party in an effort to control your eating. The whole point of going to a Christmas party is to eat other people's food for free. Lots of it. Hello?
6. Under no circumstances should you exercise between now and New Year's. You can do that in January when you have nothing else to do. This is the time for long naps, which you'll need after circling the buffet table while carrying a 10-pound plate of food and that vat of eggnog.
7. If you come across something really good at a buffet table, like frosted Christmas cookies in the shape and size of Santa, position yourself near them and don't budge. Have as many as you can before becoming the center of attention. They're like a beautiful pair of shoes. If you leave them behind, you're never going to see them again.
8. Same for pies. Apple. Pumpkin. Mincemeat. Have a slice of each. Or, if you don't like mincemeat, have two apples and one pumpkin. Always have three. When else do you get to have more than one dessert? Labor Day?
9. Did someone mention fruitcake? Granted, it's loaded with the mandatory celebratory calories, but avoid it at all cost. I mean, have some standards.
10. One final tip: If you don't feel terrible when you leave the party or get up from the table, you haven't been paying attention. Reread tips; start over, but hurry, January is just around the corner.

**Answer to puzzler on page 2**

A "cognitive radio" is one that "can change its transmitter parameters based on interaction with the environment in which it operates," the FCC's NPRM&O says. "This interaction may involve active negotiation or communications with other spectrum users and/or passive sensing & decision making within the radio."

From the ARRL Letter, Vol. 25, No. 40, October 6, 2006
160-Meter Experiment Will Explore Marconi's 1901 Transatlantic Success

A 160-m beacon will take to the air this fall & winter from Cornwall, England, to explore how Guglielmo Marconi was able to span the Atlantic by wireless for the first time on Dec. 12, 1901. Radio history says that's when the radio pioneer at a receiving station in Newfoundland successfully copied the Morse code letter "s" sent repeatedly by his team in the Cornwall town of Poldhu. The latter-day venture is a cooperative effort of the Poldhu Amateur Radio Club (PARK) in Cornwall and the Marconi Radio Club of Newfoundland (MCRN). The Poldhu club's Keith Matthew, G0WYS, said the 2001 centenary of Marconi's achievement reopened discussion into the mechanism by which the 1901 spark transmitter signal propagated.

"The winter of 1901 coincided with a sunspot minimum, and it was realized that this coming December 2006 should show similar conditions to those of December 1901," he said. Just how Marconi was able to receive the transatlantic transmission has long been a topic of discussion and even controversy, especially since the frequency Marconi used is thought to be between 800 and 900 kHz, and the time of day, afternoon in Newfoundland.

"The beacon will help understand the possibility of low sunspot number transatlantic medium wave propagation 24 hours a day, but especially 1400 through 1800 UTC," Matthew said. The 160-meter amateur band is being used, he explained, because Marconi's original frequency today is a highly populated piece of the radio spectrum. "It was realized that a clear channel would be necessary on the nearest amateur band, and a temporary license to operate a beacon on 160 meters has been obtained," Starting on or about November 1 and continuing through next February, the GB3SSS beacon will transmit on 1960 kHz.

The 1960 kHz beacon will use a 2-minute transmit sequence starting at the top of the hour. It will consist of a CW identification followed by a series of carrier bursts, each reducing in power by 6 dB. An identification in PSK31 will follow. The transmit sequence will repeat at 15-minute intervals.

Listening in Newfoundland will be Joe Craig, VO1NA. See Craig's 2001 article "Marconi's First Transatlantic Wireless Experiment," for The Canadian Amateur, the journal of RAC <<http://www.ucs.mun.ca/~jcraig/marconi.html>>. The Antique Wireless Association's W2AN club station (New York) will also be monitoring.

ARRL member and radio history buff Bart Lee, KV6LEE, proposed the 160-meter experiment to test the feasibility of Marconi's 1901 claimed achievement. See Lee's article "A Plea for Timely Experiments" on the web site <<http://www.californiahistoricalradio.com/photos53.html>>.

E-mail beacon reception reports <gb3sss@yahoo.co.uk>.

Information about BPL & Amateur Radio is on the ARRL Web site <http://www.arrl.org/tis/info/HTML/plc/>



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